

1600
7/17/2003Serial Number: 09/051,843D Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was wrapped down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____ Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file;
 page numbers throughout text; other invalid text, such as _____ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: Other:

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1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/051,843D

DATE: 07/17/2003

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

3 <110> APPLICANT: Willson, Tracey
 4 Nicola , Nicos
 5 Hilton, Douglas
 6 Metcalf, Donald
 7 Zhang , Jian
 9 <120> TITLE OF INVENTION: A novel haemopoietin receptor and genetic sequences encoding
 same
 11 <130> FILE REFERENCE: 11373
 13 <140> CURRENT APPLICATION NUMBER: US 09/051843D
 14 <141> CURRENT FILING DATE: 1998-06-29
 16 <150> PRIOR APPLICATION NUMBER: AU PN6135
 17 <151> PRIOR FILING DATE: 1995-10-23
 19 <150> PRIOR APPLICATION NUMBER: AU PN7276
 20 <151> PRIOR FILING DATE: 1995-12-22
 22 <150> PRIOR APPLICATION NUMBER: AU PP2208
 23 <151> PRIOR FILING DATE: 1996-09-09
 25 <160> NUMBER OF SEQ ID NOS: 12
 27 <170> SOFTWARE: PatentIn version 3.1
 29 <210> SEQ ID NO: 1
 30 <211> LENGTH: 1680
 31 <212> TYPE: DNA
 32 <213> ORGANISM: Mus musculus
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 35 <221> NAME/KEY: CDS
 36 <222> LOCATION: (61)..(1332)
 37 <223> OTHER INFORMATION:
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 43 Met Ala Arg Pro Ala Leu Leu Gly Glu Leu Leu Val Leu Leu Trp
 44 1 5 10 15
 46 acc gcc acc gtg ggc caa gtt gcc ggc aca gaa gtt cag cca cct 156
 47 Thr Ala Thr Val Gly Gln Val Ala Ala Thr Glu Val Gln Pro Pro
 48 20 25 30
 50 gtg acg aat ttg agc gtc tct gtc gaa aat ctc tgc acg ata ata tgg
 51 Val Thr Asn Leu Ser Val Ser Val Glu Asn Leu Cys Thr Ile Ile Trp
 52 35 40 45
 54 acg tgg agt cct cct gaa gga gcc agt cca aat tgc act ctc aga tat 252
 55 Thr Trp Ser Pro Pro Glu Gly Ala Ser Pro Asn Cys Thr Leu Arg Tyr
 56 50 55 60
 58 ttt agt cac ttt gat gac caa cag gat aag aaa att gct cca gaa act
 59 Phe Ser His Phe Asp Asp Gln Gln Asp Lys Lys Ile Ala Pro Glu Thr
 60 65 70 75 80
 62 cat cgt aaa gag gaa tta ccc ctg gat gag aaa atc tgt ctg cag gtg 348

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64				85						90						95	
66	ggc	tct	cag	tgt	agt	gcc	aat	gaa	agt	gag	aag	cct	agc	cct	ttg	gtg	396
67	Gly	Ser	Gln	Cys	Ser	Ala	Asn	Glu	Ser	Glu	Lys	Pro	Ser	Pro	Leu	Val	
68				100						105						110	
70	aaa	aag	tgc	atc	tca	ccc	cct	gaa	ggt	gat	cct	gag	tcc	gct	gtg	act	444
71	Lys	Lys	Cys	Ile	Ser	Pro	Pro	Glu	Gly	Asp	Pro	Glu	Ser	Ala	Val	Thr	
72				115						120						125	
74	gag	ctc	aag	tgc	att	tgg	cat	aac	ctg	agc	tat	atg	aag	tgt	tcc	tgg	492
75	Glu	Leu	Lys	Cys	Ile	Trp	His	Asn	Leu	Ser	Tyr	Met	Lys	Cys	Ser	Trp	
76				130						135						140	
78	ctc	cct	gga	agg	aat	aca	aga	cct	gac	aca	cac	tat	act	ctg	tac	tat	540
79	Leu	Pro	Gly	Arg	Asn	Thr	Ser	Pro	Asp	Thr	His	Tyr	Thr	Leu	Tyr	Tyr	
80	145				150						155					160	
82	tgg	tac	agc	agc	ctg	gag	aaa	agt	cgt	caa	tgt	gaa	aac	atc	tat	aga	588
83	Trp	Tyr	Ser	Ser	Leu	Glu	Lys	Ser	Arg	Gln	Cys	Glu	Asn	Ile	Tyr	Arg	
84					165					170						175	
86	gaa	ggt	caa	cac	att	gct	tgt	tcc	ttt	aaa	ttg	act	aaa	gtg	gaa	cct	636
87	Glu	Gly	Gln	His	Ile	Ala	Cys	Ser	Phe	Lys	Leu	Thr	Lys	Val	Glu	Pro	
88					180					185						190	
90	agt	ttt	gaa	cat	cag	aac	gtt	caa	ata	atg	gtc	aag	gat	aat	gct	ggg	684
91	Ser	Phe	Glu	His	Gln	Asn	Val	Gln	Ile	Met	Val	Lys	Asp	Asn	Ala	Gly	
92					195					200						205	
94	aaa	att	agg	cca	tcc	tgc	aaa	ata	gtg	tct	tta	act	tcc	tat	gtg	aaa	732
95	Lys	Ile	Arg	Pro	Ser	Cys	Lys	Ile	Val	Ser	Leu	Thr	Ser	Tyr	Val	Lys	
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98	cct	gat	cct	cca	cat	att	aaa	cat	ctt	ctc	ctc	aaa	aat	ggt	gcc	tta	780
99	Pro	Asp	Pro	Pro	His	Ile	Lys	His	Leu	Leu	Leu	Lys	Asn	Gly	Ala	Leu	
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104						245				250						255	
106	tat	gaa	gtg	gag	gtc	aat	aat	act	caa	acc	gac	cga	cat	aat	att	tta	876
107	Tyr	Glu	Val	Glu	Val	Asn	Asn	Thr	Gln	Thr	Asp	Arg	His	Asn	Ile	Leu	
108						260				265						270	
110	gag	gtt	gaa	gag	gac	aaa	tgc	cag	aat	tcc	gaa	tct	gat	aga	aac	atg	924
111	Glu	Val	Glu	Glu	Asp	Lys	Cys	Gln	Asn	Ser	Glu	Ser	Asp	Arg	Asn	Met	
112						275				280						285	
114	gag	ggt	aca	agt	tgt	ttc	caa	ctc	cct	ggt	gtt	ctt	gcc	gac	gct	gtc	972
115	Glu	Gly	Thr	Ser	Cys	Phe	Gln	Leu	Pro	Gly	Val	Leu	Ala	Asp	Ala	Val	
116						290				295						300	
118	tac	aca	gtc	aga	gta	aga	gtc	aaa	aca	aac	aag	tta	tgc	ttt	gat	gac	1020
119	Tyr	Thr	Val	Arg	Val	Arg	Val	Lys	Thr	Asn	Lys	Leu	Cys	Phe	Asp	Asp	
120	305					310					315					320	
122	aac	aaa	ctg	tgg	agt	gat	tgg	agt	gaa	gca	cag	agt	ata	ggt	aag	gag	1068
123	Asn	Lys	Leu	Trp	Ser	Asp	Trp	Ser	Glu	Ala	Gln	Ser	Ile	Gly	Lys	Glu	
124						325				330						335	
126	caa	aac	tcc	acc	ttc	tac	acc	acc	atg	tta	ctc	acc	att	cca	gtc	ttt	1116
127	Gln	Asn	Ser	Thr	Phe	Tyr	Thr	Met	Leu	Leu	Thr	Ile	Pro	Val	Phe		

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130	gtc gca gtg gca gtc ata atc ctc ctt ttt tac ctg aaa agg ctt aag			1164
131	Val Ala Val Ala Val Ile Ile Leu Leu Phe Tyr Leu Lys Arg Leu Lys			
132	355	360	365	
134	atc att ata ttt cct cca att cct gat cct ggc aag att ttt aaa gaa			1212
135	Ile Ile Ile Phe Pro Pro Ile Pro Asp Pro Gly Lys Ile Phe Lys Glu			
136	370	375	380	
138	atg ttt gga gac cag aat gat gat acc ctg cac tgg aag aag tat gac			1260
139	Met Phe Gly Asp Gln Asn Asp Asp Thr Leu His Trp Lys Lys Tyr Asp			
140	385	390	395	400
142	atc tat gag aaa caa tcc aaa gaa gaa acg gat tct gta gtg ctg ata			1308
143	Ile Tyr Glu Lys Gln Ser Lys Glu Glu Thr Asp Ser Val Val Leu Ile			
144	405	410	415	
146	gaa aac ctg aag aaa gca gct cct tgatggggag aagtgatttc tttcttgcc			1362
147	Glu Asn Leu Lys Lys Ala Ala Pro			
148	420			
150	tcaatgtgac cctgtgaaga tttattgcat tctccatttg ttatctgggg gacttgttaa			1422
152	atagaaaactg aaactactct tgaaaaacag gcagctccta agagccacag gtcttgatgt			1482
154	gacttttgc a ttgaaaaccc aaacccaaag gagctccttc caagaaaagc aagagttctt			1542
156	ctcggttcctt gttccaatcc ctaaaagcag atgtttgcc aaatccccaa actagaggac			1602
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182	Thr Trp Ser Pro Pro Glu Gly Ala Ser Pro Asn Cys Thr Leu Arg Tyr			
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186	Phe Ser His Phe Asp Asp Gln Gln Asp Lys Lys Ile Ala Pro Glu Thr			
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190	His Arg Lys Glu Glu Leu Pro Leu Asp Glu Lys Ile Cys Leu Gln Val			
191	85	90	95	
194	Gly Ser Gln Cys Ser Ala Asn Glu Ser Glu Lys Pro Ser Pro Leu Val			
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198	Lys Lys Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu Ser Ala Val Thr			
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202	Glu Leu Lys Cys Ile Trp His Asn Leu Ser Tyr Met Lys Cys Ser Trp			
203	130	135	140	
206	Leu Pro Gly Arg Asn Thr Ser Pro Asp Thr His Tyr Thr Leu Tyr Tyr			
207	145	150	155	160
210	Trp Tyr Ser Ser Leu Glu Lys Ser Arg Gln Cys Glu Asn Ile Tyr Arg			
211	165	170	175	

RAW SEQUENCE LISTING DATE: 07/17/2003
 PATENT APPLICATION: US/09/051,843D TIME: 19:39:27

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\07172003\I051843D.raw

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 215 180 185 190
 218 Ser Phe Glu His Gln Asn Val Gln Ile Met Val Lys Asp Asn Ala Gly
 219 195 200 205
 222 Lys Ile Arg Pro Ser Cys Lys Ile Val Ser Leu Thr Ser Tyr Val Lys
 223 210 215 220
 226 Pro Asp Pro Pro His Ile Lys His Leu Leu Lys Asn Gly Ala Leu
 227 225 230 235 240
 230 Leu Val Gln Trp Lys Asn Pro Gln Asn Phe Arg Ser Arg Cys Leu Thr
 231 245 250 255
 234 Tyr Glu Val Glu Val Asn Asn Thr Gln Thr Asp Arg His Asn Ile Leu
 235 260 265 270
 238 Glu Val Glu Glu Asp Lys Cys Gln Asn Ser Glu Ser Asp Arg Asn Met
 239 275 280 285
 242 Glu Gly Thr Ser Cys Phe Gln Leu Pro Gly Val Leu Ala Asp Ala Val
 243 290 295 300
 246 Tyr Thr Val Arg Val Arg Val Lys Thr Asn Lys Leu Cys Phe Asp Asp
 247 305 310 315 320
 250 Asn Lys Leu Trp Ser Asp Trp Ser Glu Ala Gln Ser Ile Gly Lys Glu
 251 325 330 335
 254 Gln Asn Ser Thr Phe Tyr Thr Thr Met Leu Leu Thr Ile Pro Val Phe
 255 340 345 350
 258 Val Ala Val Ala Val Ile Ile Leu Leu Phe Tyr Leu Lys Arg Leu Lys
 259 355 360 365
 262 Ile Ile Ile Phe Pro Pro Ile Pro Asp Pro Gly Lys Ile Phe Lys Glu
 263 370 375 380
 266 Met Phe Gly Asp Gln Asn Asp Asp Thr Leu His Trp Lys Lys Tyr Asp
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 279 <211> LENGTH: 1383
 280 <212> TYPE: DNA
 281 <213> ORGANISM: human
 283 <220> FEATURE:
 284 <221> NAME/KEY: CDS
 285 <222> LOCATION: (61)..(1338)
 286 <223> OTHER INFORMATION:
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 292 Met Glu Trp Pro Ala Arg Leu Cys Gly Leu Trp Ala Leu Leu Cys
 293 1 5 10 15
 295 gcc ggc ggc ggg ggc ggg ggc gcg cct acg gaa act cag cca 156
 296 Ala Gly Gly Gly Gly Gly Gly Ala Pro Thr Glu Thr Gln Pro
 297 20 25 30
 299 cct gtg aca aat ttg agt gtc tct gtt gaa aac ctc tgc aca gta ata 204

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/051,843D

DATE: 07/17/2003

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

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304	Trp	Thr	Trp	Asn	Pro	Pro	Glu	Gly	Ala	Ser	Ser	Asn	Cys	Ser	Leu	Trp
305	50						55					60				
307	tat	ttt	agt	cat	ttt	ggc	gac	aaa	caa	gat	aag	aaa	ata	gct	ccg	gaa
308	Tyr	Phe	Ser	His	Phe	Gly	Asp	Lys	Gln	Asp	Lys	Lys	Ile	Ala	Pro	Glu
309	65						70				75		80			
311	act	cgt	cgt	tca	ata	gaa	gta	ccc	ctg	aat	gag	agg	att	tgt	ctg	caa
312	Thr	Arg	Arg	Ser	Ile	Glu	Val	Pro	Leu	Asn	Glu	Arg	Ile	Cys	Leu	Gln
313							85			90		95				
315	gtg	ggg	tcc	cag	tgt	agc	acc	aat	gag	agt	gag	aag	cct	agc	att	ttg
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317							100			105		110				
319	gtt	gaa	aaa	tgc	atc	tca	ccc	cca	gaa	ggt	gat	cct	gag	tct	gct	gtg
320	Val	Glu	Lys	Cys	Ile	Ser	Pro	Pro	Glu	Gly	Asp	Pro	Glu	Ser	Ala	Val
321							115			120		125				
323	act	gaa	ctt	caa	tgc	att	tgg	cac	aac	ctg	agc	tac	atg	aag	tgt	tct
324	Thr	Glu	Leu	Gln	Cys	Ile	Trp	His	Asn	Leu	Ser	Tyr	Met	Lys	Cys	Ser
325							130			135		140				
327	tgg	ctc	cct	gga	agg	aat	acc	agt	ccc	gac	act	aac	tat	act	ctc	tac
328	Trp	Leu	Pro	Gly	Arg	Asn	Thr	Ser	Pro	Asp	Thr	Asn	Tyr	Thr	Leu	Tyr
329							145			150		155		160		
331	tat	tgg	cac	aga	agc	ctg	gaa	aaa	att	cat	caa	tgt	gaa	aac	atc	ttt
332	Tyr	Trp	His	Arg	Ser	Leu	Glu	Lys	Ile	His	Gln	Cys	Glu	Asn	Ile	Phe
333							165			170		175				
335	aga	gaa	ggc	caa	tac	ttt	ggt	tgt	tcc	ttt	gat	ctg	acc	aaa	gtg	aag
336	Arg	Glu	Gly	Gln	Tyr	Phe	Gly	Cys	Ser	Phe	Asp	Leu	Thr	Lys	Val	Lys
337							180			185		190				
339	gat	tcc	agt	ttt	gaa	caa	cac	agt	gtc	caa	ata	atg	gtc	aag	gat	aat
340	Asp	Ser	Ser	Phe	Glu	Gln	His	Ser	Val	Gln	Ile	Met	Val	Lys	Asp	Asn
341							195			200		205				
343	gca	gga	aaa	att	aaa	cca	tcc	ttc	aat	ata	gtg	cct	tta	act	tcc	cgt
344	Ala	Gly	Lys	Ile	Lys	Pro	Ser	Phe	Asn	Ile	Val	Pro	Leu	Thr	Ser	Arg
345							210			215		220				
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348	Val	Lys	Pro	Asp	Pro	Pro	His	Ile	Lys	Asn	Leu	Ser	Phe	His	Asn	Asp
349							225			230		235		240		
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352	Asp	Leu	Tyr	Val	Gln	Trp	Glu	Asn	Pro	Gln	Asn	Phe	Ile	Ser	Arg	Cys
353							245			250		255				
355	cta	ttt	tat	gaa	gta	gaa	gtc	aat	aac	agc	caa	act	gag	aca	cat	aat
356	Leu	Phe	Tyr	Glu	Val	Glu	Val	Asn	Asn	Ser	Gln	Thr	Glu	Thr	His	Asn
357							260			265		270				
359	gtt	ttc	tac	gtc	caa	gag	gct	aaa	tgt	gag	aat	cca	gaa	ttt	gag	aga
360	Val	Phe	Tyr	Val	Gln	Glu	Ala	Lys	Cys	Glu	Asn	Pro	Glu	Phe	Glu	Arg
361							275			280		285				
363	aat	gtg	gag	aat	aca	tct	tgt	ttc	atg	gtc	cct	ggt	gtt	ctt	cct	gat
364	Asn	Val	Glu	Asn	Thr	Ser	Cys	Phe	Met	Val	Pro	Gly	Val	Leu	Pro	Asp

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/17/2003
PATENT APPLICATION: US/09/051,843D TIME: 19:39:28

Input Set : A:\PTO.AMC.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 3
Seq#:10; Xaa Pos. 24
Seq#:11; Xaa Pos. 24



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/051,843D

DATE: 07/17/2003

TIME: 08:15:50

Input Set : N:\Crf4\07152003\I051843A.raw
 Output Set: N:\CRF4\07172003\I051843D.raw

1 <110> APPLICANT: Willson, Tracey
 2 Nicola , Nicos
 3 Hilton, Douglas
 4 Metcalf, Donald
 5 Zhang , Jian
 6 <120> TITLE OF INVENTION: A novel haemopoietin receptor and genetic sequences encoding
 same
 7 <130> FILE REFERENCE: 11373
 C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/051,843D
 9 <141> CURRENT FILING DATE: 1998-06-29
 10 <150> PRIOR APPLICATION NUMBER: AU PN6135
 11 <151> PRIOR FILING DATE: 1995-10-23
 12 <150> PRIOR APPLICATION NUMBER: AU PN7276
 13 <151> PRIOR FILING DATE: 1995-12-22
 14 <150> PRIOR APPLICATION NUMBER: AU PP2208
 15 <151> PRIOR FILING DATE: 1996-09-09
 16 <160> NUMBER OF SEQ ID NOS: 12
 17 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

416 <210> SEQ ID NO: 12
 417 <211> LENGTH: 5
 418 <212> TYPE: PRT
 419 <213> ORGANISM: unknown
 420 <220> FEATURE:
 421 <223> OTHER INFORMATION: peptide motif found in many members of the haemopoietin
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 422 family
 423 <400> SEQUENCE: 12
 424 Trp Ser Asp Trp Ser
 425 1 5
 E--> 426 -/- -
 delete

[Handwritten signature]
 Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/17/2003
PATENT APPLICATION: US/09/051,843D TIME: 08:15:51

Input Set : N:\Crf4\07152003\I051843A.raw
Output Set: N:\CRF4\07172003\I051843D.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6
Seq#:12; Line(s) 421

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/051,843D

DATE: 07/17/2003

TIME: 08:15:51

Input Set : N:\Crf4\07152003\I051843A.raw

Output Set: N:\CRF4\07172003\I051843D.raw

L:8 M:270 C: Current Application Number differs, Wrong Format
L:27 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:0
L:185 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16
L:426 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12